

# Welcome to the North Dakota Space Grant 14<sup>th</sup> Annual Affiliates Meeting

March 22-23, 2019



Host: John Webster  
Minot State University  
Minot, ND

Jim Casler  
Director

Caitlin Nolby  
Deputy Director

Marissa Saad  
Coordinator

# Agenda – Friday, March 22, 2019

- ▶ *Welcome! Today, we're going to:*
  - ▶ *Hear from Veronica Pinnick*
  - ▶ *Catch up on SG events from Marlin*
  - ▶ *Hear from two students and two teams*
  - ▶ *Phew, break time!*
  - ▶ *Session for prospective students (good for everyone!)*
  - ▶ *Dinner time! Meet new friends at Primo!*

# Purpose of Space Grant

## **NASA Space Grant Mission Statement:**

The NASA Space Grant College and Fellowship Program is a national network that promotes science, technology, engineering and mathematics (STEM) education through cooperative and multidisciplinary programs while recruiting and training the workforce.

The NDSGC fulfills the Space Grant mission by involving ND students, faculty, and K-12 teachers and students in multi-institutional, collaborative, NASA-relevant research and education projects, while also educating the ND citizenry about NASA, its purpose, and its missions.

## **Five Focus Areas:**

- ▶ NASA Internships, Fellowships, and Scholarships
- ▶ Higher Education
- ▶ Research Infrastructure
- ▶ Pre-college
- ▶ Informal Education





**BISMARCK**  
STATE COLLEGE



**CANKDESKA CIKANA**  
**COMMUNITY COLLEGE**

*Spirit Lake Dakota Nation*



**DAKOTA COLLEGE**  
AT BOTTINEAU



**DICKINSON**  
STATE UNIVERSITY



HIDATSA  
SAHNISH  
NUETA  
Established 1973  
New Town, North Dakota  
COLLEGE



**Gateway**  
to  
**Science**



**Lake Region**  
State College



**Mayville**  
State  
University



**Minot State**  
UNIVERSITY



**THE SCIENCE OF SUCCESS.**

North Dakota State College of Science



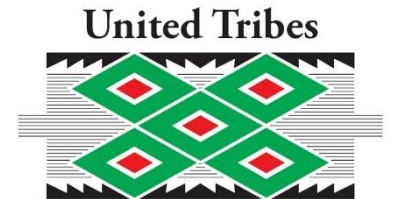
*North Dakota State University*



**COLLEGE**



**COMMUNITY COLLEGE**



**Technical College**



**UNIVERSITY OF**  
**NORTH DAKOTA**



**VALLEY CITY**  
STATE UNIVERSITY



**WILLISTON**  
STATE COLLEGE



**STATE**  
**HISTORICAL**  
**SOCIETY**  
OF NORTH DAKOTA



What has everyone been up to?

#NASAINND

FY18 Report Highlights

# 2018 NORTH DAKOTA

## Space Grant Consortium

Female students  
directly supported

55%

Underrepresented minorities  
directly supported

26%



### NASA Internships

9 Students



Researched at

6 centers

### Fellowships

10

Students from  
BSC • NDSU • UND

6

Faculty Fellowships from  
VCSU • TMCC • NDSU • UND

### K-12 Education

171 Pre-service  
Educators

In-service  
Educators 151

7,195 Engaged in  
Outreach

STEM Ambassadors  
traveling the state 6

### Competition Teams



8

Competition Teams  
NDSU • UND

### Scholarships

90 Students  
funded

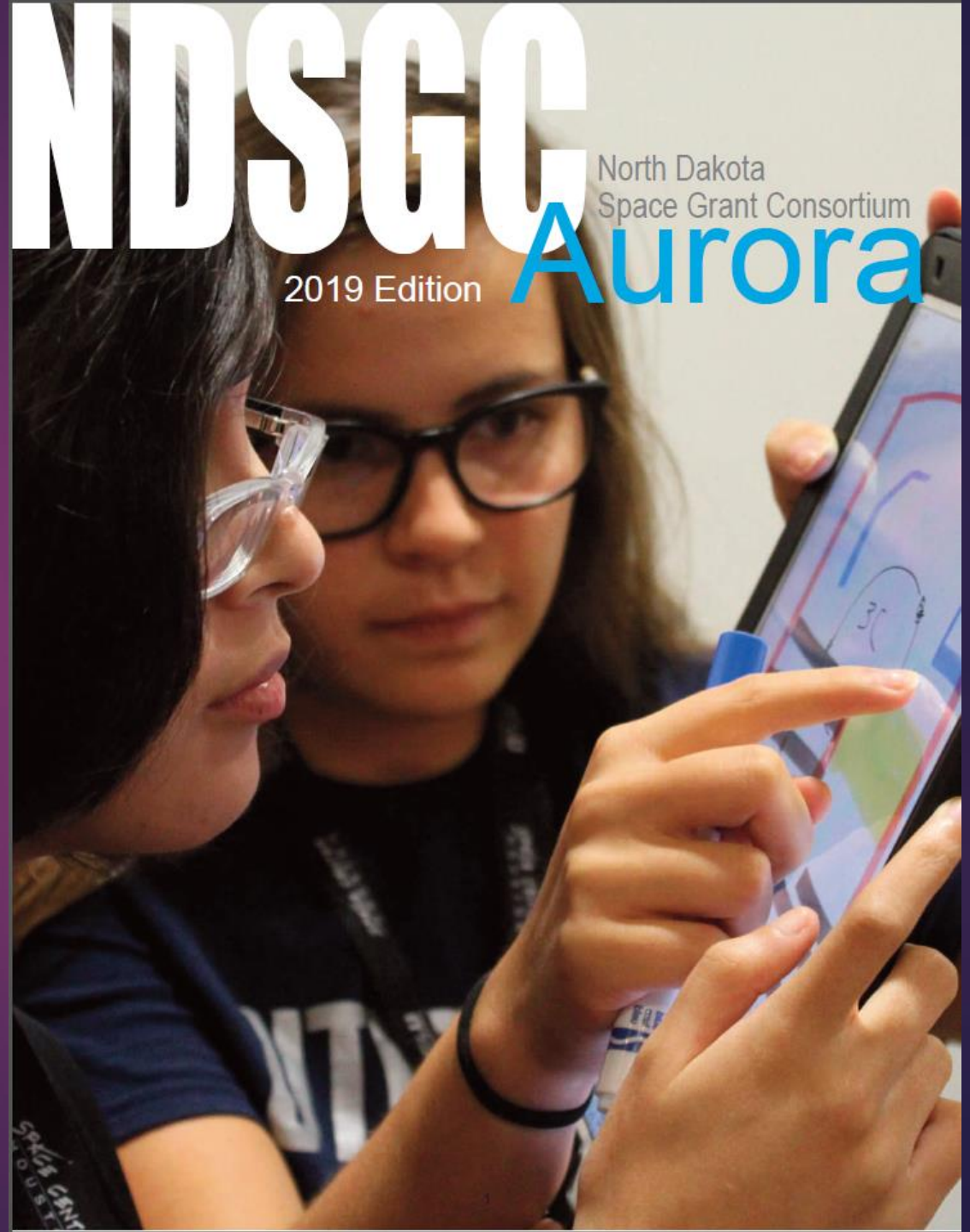


58% Female  
students

36% Underrepresented  
Minorities

Follow along in  
the New Aurora!

New! We've aligned the Aurora  
with the reporting periods



# FY18 Report Highlights

## ▶ 109 NIFS

- ▶ 54% female
- ▶ 32% underrepresented minorities

## ▶ Scholarships

- ▶ 90 scholarships awarded
- ▶ 58% female, 36% underrepresented minorities
- ▶ 5 American Indian Scholarships
- ▶ 1 Pearl I. Young Scholarships (UND)
- ▶ 1 Lillian Goettler Scholarship (NDSU)



NDCS' Mitch and Joey

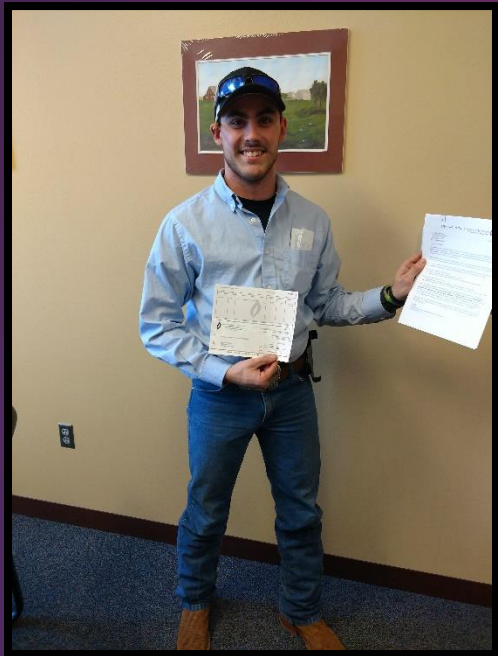




# FY18 Report Highlights – NASA Internships



Aaron Knudtson  
(NDSU)  
Goddard SFC



Zane Ducheneaux (SBC)  
Goddard SFC



Kayla Daniels (UND)  
ILC Dover



Evan Gjesvold (NDSU)  
Goddard SFC



Porter Dixon (NDSU)  
Johnson SC

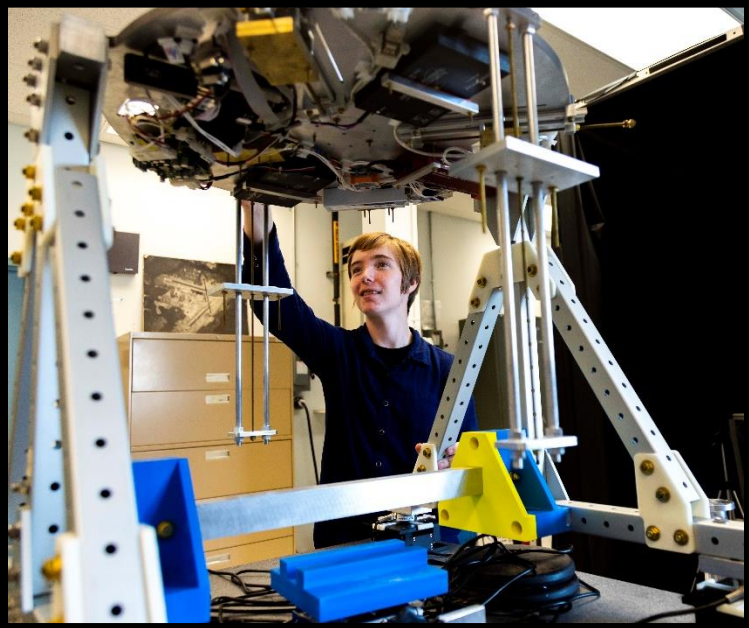
# FY18 Report Highlights – NASA Internships



Nathaniel Boisjolie-Gair  
(NDSU)  
Armstrong FRC



Denise Buckner (UND)  
Ames RC



Kim Whaley (NDSU)  
Wallops FF



Annie Miles (UND)  
Goddard SFC

# FY18 Report Highlights – Fellowships

10



Alan Perrault (NDSU)  
Mech. Engineering



Colton Mosser (NDSU)  
Mech. Engineering

Brad Hoffmann (UND)  
Space Studies & Biomedical  
Engineering



Jennifer Russell (UND)  
Space Studies



Nanette Valentour (UND)  
Space Studies

# FY18 Report Highlights – Fellowships

10



Sophie Orr (UND)  
Space Studies



Jason Schirck (NDSU)  
Mech. Engineering



Drew Ross (UND)  
Electrical Engineering



Sean Mahoney (NDSU)  
Health, Nutrition, & Exercise Science



Kiley Neuman (BSC)  
Pre-Physical Therapy

# FY18 Report Highlights

6 faculty reached

6



Michael Dodge  
(UND)



Sherry Fieber-Beyer  
(UND)



Julie Robinson  
(UND)



David DeMuth  
(VCSU)

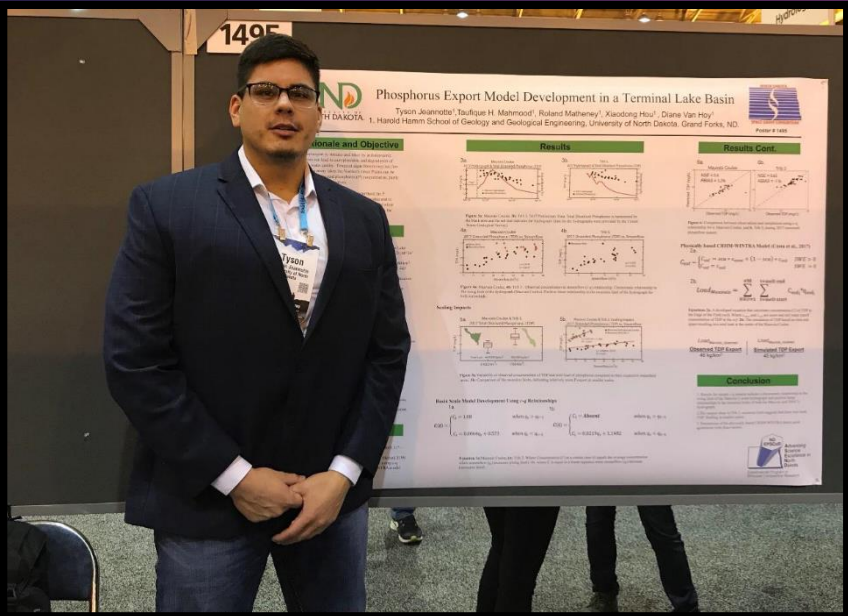


David Wibe  
(TMCC)



Andre DeLorme  
(VCSU)

# FY18 Report Highlights –Travel Grants



Tyson Jeannotte (UND)  
American Geophysical  
Union Meeting



Peter Henson (UND)  
Academic High  
Altitude Conference



Denise Buckner (UND)  
Academic High  
Altitude Conference

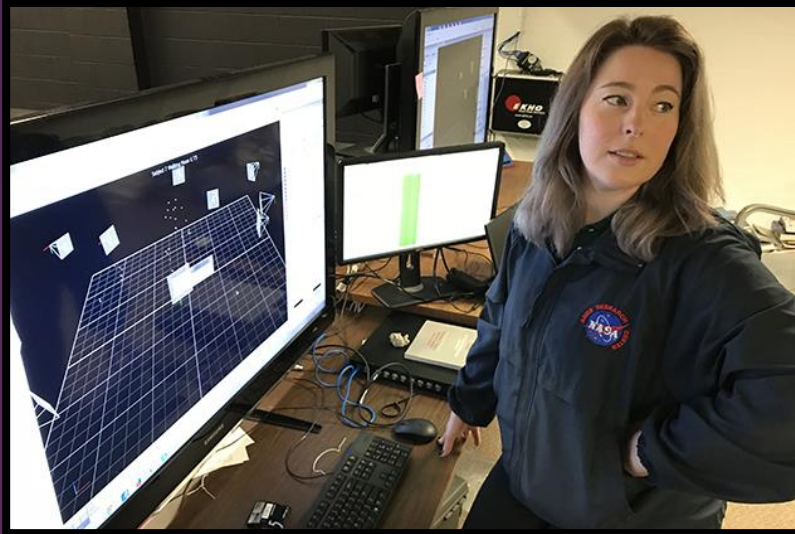
# FY18 Report Highlights –Travel Grants



Anima Patil-Sabale (UND)  
NASA's S.U.I.T.S.



Shannon Forrey (UND)  
NASA S.U.I.T.S.



Sophie Orr (UND)  
NASA Johnson SC

# FY18 Report Highlights – Pre-College



#876 Northwood/Hatton



#877  
Cando



#4818  
West Fargo/Fargo



# FY18 Report Highlights – Pre-College Near-Space Balloon Competition



Garrison, Tower City,  
Grand Forks, West Fargo,  
Wahpeton, **Kindred**

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80,266 feet

# FY18 NDVS/SB

ND Vision Services/School for the Blind



# FY18 VIS-U Camp

Space Center Houston's Space Camp with a ND Vision Services/School for the Blind Educator, Emily Stenberg.



# FY18 College NASA-Team Highlights



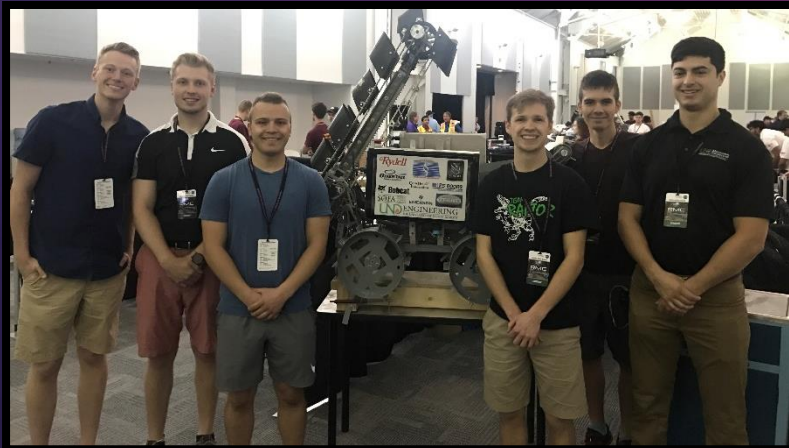
UND Formula SAE



NDSU Rover Challenge



UND Student Launch



UND Robotics Mining



NDSU Robotics Mining

NDSU AIAA  
NDSU MATE ROV  
NDSU SUAS

# FY18 STEM Outreach Highlights

STEM  
Ambassadors  
spring & summer



Matthew Kurtti  
(NDSU)

Shae Skager  
(UND)



3



Jacob Leier  
(Mayville)



Levi Lemer  
(Mayville)



Emma Twedt  
(NDSU)

2



Connie Nelson  
(Mayville; *Bottineau region*)

2

# FY18 STEM Outreach Highlights

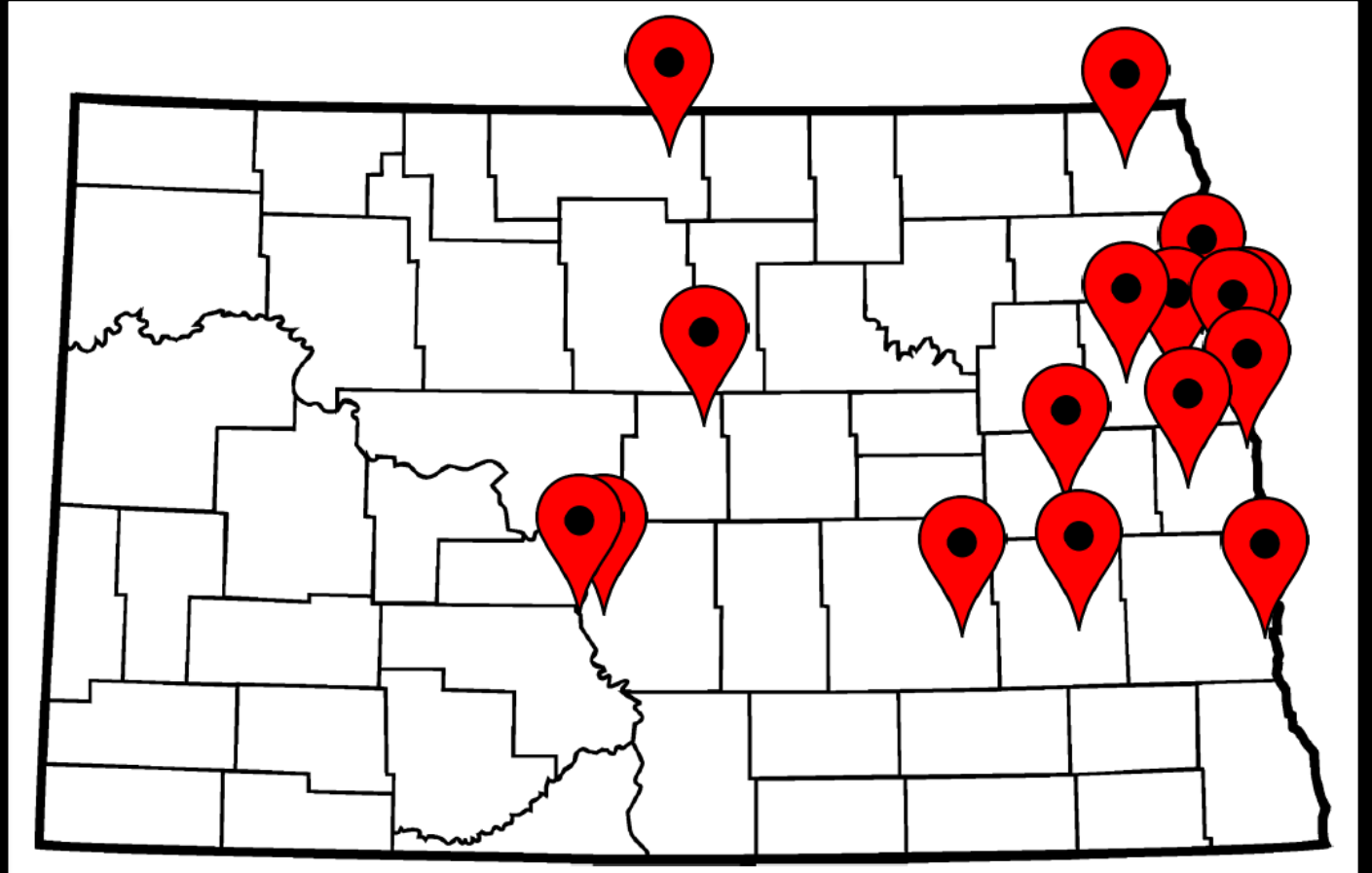
## Training Workshop



Independent activities

# FY18 Report Highlights

+3,200 K-12 students and members of the public reached!



# FY18 STEM Outreach Highlights

- ▶ Community Day!
  - ▶ UND Aerospace's 50<sup>th</sup> Birthday
  - ▶ NDSGC was on organizing committee
  - ▶ ~2,500 visitors
    - ▶ Space suits, simulators, meteorites, STEM activities
    - ▶ STEM Ambassadors were awesome!

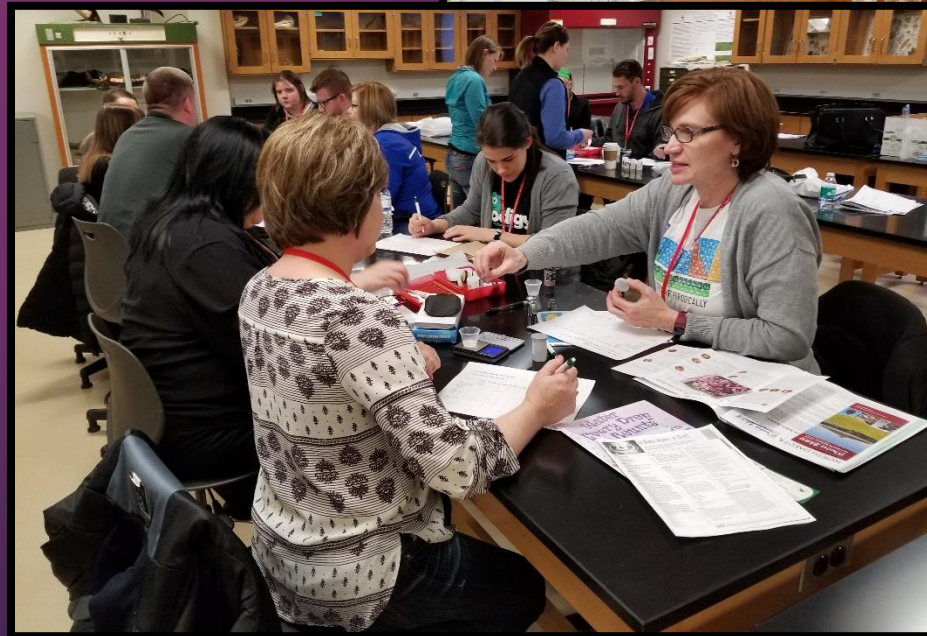




# FY18 In-Service Education Highlights

Reached **151** educators

- Rugby Regional
  - North Central Education Cooperative (NCEC)
- UTTC, with Leah Hamann
  - 6 In-Service Teachers
- Valley City State University
  - ND STEAM Conference for Math & Science Teachers



# FY18 Pre-Service Education Highlights

171 students reached

- UTTC
  - Leah Hamann
- MSU
  - Dane Schaffer
- VCSU
  - Kathleen Bennett Zaun
- UND
  - Julie Robinson and Steven Ternes



# FY18 SEEC Experiences

3 teachers attended conference in Houston, TX

- Amanda Skinner
- Kathleen Lentz
- Damian Kennedy



# Other Programming

## Faculty

- Research Focus Area Projects
- Meetings and other administrative expenses



## College-level Activities

- ▶ GRAs and Tuition Waivers
- ▶ Human Spaceflight Laboratory (rover, suits, habitat)



# Presentations

# Interactive Session: Tips & Tricks

- ▶ Four Table Topics – rotate every 15 minutes (3 sets)
- ▶ Come together and share final thoughts
- ▶ Prospective Students:
  - ▶ NASA Internships
  - ▶ Research Fellowships
  - ▶ STEM Ambassador Program
- ▶ Faculty:
  - ▶ Research Focus Area (RFA) Awards & Summer Faculty Fellowships
- ▶ Table Leads: Funded students & faculty – spread yourselves out!



# Reimbursement Assistance

If anyone has to leave early, make sure to read all directions on the reimbursement forms.

- ▶ Please write your **email address**
- ▶ The **school (or place of work)** that you departed from
- ▶ Remember to check off the appropriate box at the top of the page.
- ▶ **Purpose of trip:** "2019 ND Space Grant Affiliates Meeting"
- ▶ **Do not** fill out the middle section that's in a box. We'll complete that for everyone.
- ▶ Remember to sign the bottom signature line.
- ▶ Did you share a room with someone? If so, who:
- ▶ Did you share a ride with someone? If so, please list names:

**NON-EMPLOYEE/STUDENT TRAVEL EXPENSE WORKSHEET - NDSGC**

**\*\*Form must be completed and attached to Voucher, and forwarded to Accounting Services, Stop# 8356\*\***

Please refer to the Accounting Services web site for Non-Employee Travel Policies and Procedures.

Individual is:  **ND STATE EMPLOYEE**  **NON-EMPLOYEE**  **STUDENT - UND only**  
Excludes UND Employees (Account 623200) (Includes non-UND students) (Account 623200) (undergraduate, graduate, & Medical School residents) (Account 521105)

NAME \_\_\_\_\_ Last 4 digits of SOCIAL SECURITY NUMBER \_\_\_\_\_  
(Required for all US Citizens)

VISA TYPE (Required for Non-Resident Aliens) Copy of Visa and I-94 MUST be attached.

PERMANENT HOME ADDRESS: \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Date of Departure \_\_\_\_\_ Time of Departure \_\_\_\_\_ Date of Return \_\_\_\_\_ Time of Return \_\_\_\_\_

Destination (City, State, Country) \_\_\_\_\_

Purpose of Trip \_\_\_\_\_

Vehicle Driven:  Personal  State Fleet  N/A

EXPENSES TO BE REIMBURSED:			
<b>MEALS</b> (per diem based on current in-state and out-of-state rate listings): <b>Receipts are <u>not</u> required for meals, unless claiming reimbursement for paying for another's meal(s).</b>			
	Rate	# of Meals	Total
Breakfast:	7.00	x _____	= _____
Lunch:	10.50	x _____	= _____
Dinner:	17.50	x _____	= _____
<b>Meal Total</b>			_____
<b>MILEAGE</b> (GSA rate): <b>Receipts are <u>not</u> required for mileage. NOTE: NDSGC caps mileage reimbursement at \$250/trip.</b>			
NDSGC rate: .4/mi	Total Miles	Rate	Mileage Total
	_____ x _____	.4	= _____
<b>LODGING:</b> (Do not include lodging expense if direct billed to UND)			<b>Lodging Total</b>
			_____
<b>AIRLINE:</b> (Do not include ticket expense if direct billed to UND) Original passenger coupon or Electronic Ticket Invoice required.			<b>Airline Total</b>
			_____
<b>MISCELLANEOUS:</b> Please list each expense and applicable amount Original receipts required except for taxi fares =<\$10.00			<b>Misc. Total</b>
			_____
<b>TOTAL AMOUNT TO BE REIMBURSED:</b>			_____
<small>(Should equal sum of all categories above and should equal amount on Voucher)</small>			

**Funding: 30247-2245 UND0020212**

PI/Department Approval: Dr. Jim Casler Date \_\_\_\_\_

I hereby certify this itemized statement representing a claim for per diem, mileage and /or travel expenses or combination thereof is truthful and accurate. All expenses claimed have not been paid by the state through direct payments to the hotel or with a state credit card and is not a duplicate payment.

Traveler's Signature (in ink) \_\_\_\_\_ Date \_\_\_\_\_





# See you at Primo!

(IN GRAND HOTEL)

6:30 PM